

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicants:** Tatsuya Shiragaki, et al.

**Examiner:** unassigned

**Serial No.:** unassigned

**Art Unit:** unassigned

**Filed:** herewith

**Docket:** 12090A

**For:** RING NETWORK FOR SHARING  
PROTECTION RESOURCE BY  
WORKING COMMUNICATION  
PATHS

**Dated:** September 3, 2003

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.


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**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**

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I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to the Commissioner for Patents and Trademarks, Alexandria, VA 22313 on September 3, 2003.

Dated: September 3, 2003

  
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Paul J. Esatto, Jr.

1. Japanese Laid-Open Patent Application No. 6-205028, published July 22, 1994.
2. Japanese Laid-Open Patent Application No. 6-37779, published February 10, 1994.
3. Japanese Laid-Open Patent Application No. 7-66821, published March 10, 1995.
4. Japanese Laid-Open Patent Application No. 9-509028, published September 9, 1997.
5. European Patent Application No. EP 0716 521 A2 published June 12, 1996.
6. PCT Application No. WO 98/47255 published October 22, 1998.
7. PCT Application No. WO 97/01897 published January 16, 1997.
8. U.S. Patent No. 5,442,623, issued to August 15, 1995 to Wu.
9. U.S. Patent No. 5,159,595 issued to Flanagan et al. dated October 27, 1992.
10. U.S. Patent No. 5,647,035 issued to Cadeddu et al. dated July 1997.
11. U.S. Patent No. 5,760,934 issued to Sutter dated to June 1998.
12. U.S. Patent No. 6,256,292 issued to Ellis et al. dated July 2001.
13. U.S. Patent No. 6,456,406 issued to Arecco et al. dated September 2002.
14. U.S. Patent No. 5,550,805 issued to Takatori et al. dated August 1996.
15. U.S. Patent No. 5,179,548 issued to Sandesara dated January 1993.
16. U.S. Patent No. 5,793,746 issued to Gerstel et al. August 1998.
17. U.S. Patent No. 6,069,719 issued to Mizrahi dated May 2000.
18. U.S. Patent No. 5,550,805 issued to Takatori et al. dated August 1996.
19. U.S. Patent No. 5,986,783 issued to Sharma et al. dated November 1999.

20. "An Optical Bidirectional Self-Healing Ring with Increased Capacity Using WDM" R. Cadeddu et al., 22<sup>nd</sup> European Conference on Optical Communication , 1996, pp 3.257 – 3.258.
21. "Network Operations and Management Issues for Transparent WDM Networks", R.S. Vodhanel, et al., Lasers and Electro-Optics Society Annual Meeting, IEEE, October 31, 1994, pp. 365-366.
22. "A Uni-Directional Self Healing Ring Using WDM Technique", Erland Almström et al., Proceedings of the European Conference on Optical Communication (ECOC) Firenze, September 25-29, 1994, Genova, IIC, IT, Vol. 2, Conf. 20, 1994, pp 873-875.
23. "Multiwavelength Survivable Ring Network Architectures", A.F. Elrefaie, Proceedings of the International Conference on Communications (ICC), Geneva, May 23-26 1993, New York, IEEE, Vol. 3, May 23, 1993, pp 1245-1251.
24. "An Optical FDM-Based Self-Healing Ring Network Employing Arrayed Waveguide Grating Filters and EDFA's with Level Equalizers", Hiromu Toba et al., IEEE Journal on Selected Areas in Communication, IEEE Inc. New York, Vol. 14, No. 5, June 1, 1996, pp 800-813.

Pursuant to 37 C.F.R. § 1.98(d), copies of the above-listed references are not provided, as the references 1-9, 20-24 were previously submitted in Information Disclosure Statements dated December 29, 1998, June 4, 2001, May 7, 2002, February 12, 2003 and June 12, 2003.

Reference nos. 10-19 were previously cited by the Examiner. All the above references were cited in connection with the parent case, Serial Number 09/200,583 filed November 27, 1998.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no statement or fee is required.

Respectfully submitted,



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<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>				ATTY DOCKET NO. 12090 A		SERIAL NO. unassigned	
				TATSUYA SHIRAGAKI, et al.			
				FILING herewith		GROUP unassigned	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,442,623	8/15/95	Wu			
		5,159,595	10/27/92	Flanagan et al.			
		5,647,035	7/97	Cadeddu et al.			
		5,760,934	6/98	Sutter			
		6,256,292	7/01	Ellis et al.			
		6,456,406	9/02	Arecco et al.			
		5,550,805	8/96	Takatori et al.			
		5,179,548	1/93	Sandesara			
		5,793,746	8/98	Gerstel et al.			
		6,069,719	5/00	Mizrahi			
		5,550,805	8/96	Takatori et al.			

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		6-205028	7/22/94	Japan				
		6-37779	2/10/94	Japan				
		7-66821	3/10/95	Japan				
		9-509028	9/9/97	Japan				
		EP 0716 521 A2	6/12/96	Europe				

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
			"An Optical Bidirectional Self-Healing Ring with Increased Capacity Using WDM" R. Cadeddu et al., 22nd European Conference on Optical Communication , 1996, pp 3.257 3.258.  "Network Operations and Management Issues for Transparent WDM Networks", R.S. Vodhanel, et al., Lasers and Electro-Optics Society Annual Meeting, IEEE, October 31, 1994, pp. 365-366.
			"A Uni-Directional Self Healing Ring Using WDM Technique", Erland Almström et al., Proceedings of the European Conference on Optical Communication (ECOC) Firenze, September 25-29, 1994, Genova, IIC, IT, Vol. 2, Conf. 20, 1994, pp 873-875.

<b>EXAMINER</b>	<b>DATE CONSIDERED</b>
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		5,986,783	11/99	Sharma et al.			

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							YES	NO
		WO 98/47255	10/22/98	PCT				
		WO 97/01897	1/16/97	PCT				

OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
*	EXAMINER INITIAL		"Multiwavelength Survivable Ring Network Architectures", A.F. Elrefaie, Proceedings of the International Conference on Communications (ICC), Geneva, May 23-26 1993, New York, IEEE, Vol. 3, May 23, 1993, pp 1245-1251.
			"An Optical FDM-Based Self-Healing Ring Network Employing Arrayed Waveguide Grating Filters and EDFA's with Level Equalizers", Hiromu Toba et al., IEEE Journal on Selected Areas in Communication, IEEE Inc. New York, Vol. 14, No. 5, June 1, 1996, pp 800-813.

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